

# **User Manual**

# Body Temperature Measurement + Face Recognition Intelligent Panel Terminal



Model: FFT-02

V1.1 305503000481

#### **Table of Contents**

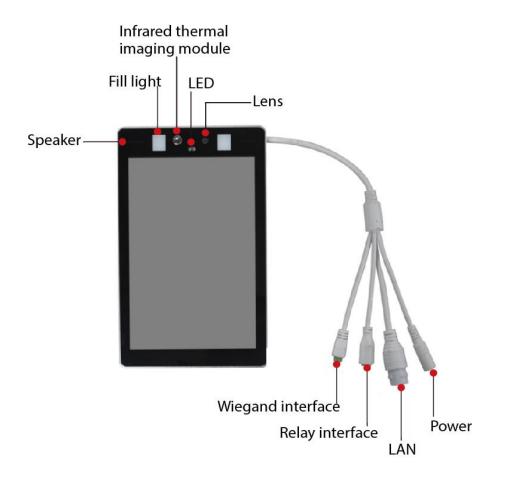
1 Product introduction	3
1.1 Product description	3
1.2 Product appearance	3
1.3 Definition of equipment interface	4
1.4 Packing Contents	4
2 Equipment installation	5
2.1 Hardware Installation	5
2.2 Installation location	10
2.3 Installation environment	10
2.4 Wiegand interface use	11
3 Quick instructions	14
3.1 Equipment connection	14
3.2 Smart access control management software	19
4 Program upgrade	30

# **1 Product introduction**

#### **1.1 Product description**

The product of 1080P temperature measurement & face recognition intelligent panel terminal is with LCD display screen. The product is an AI intelligent access control product, which embedding algorithm of deep learning face recognition, integrating the high-precision thermal imaging temperature measurement chip as well as ISP image processing. The product is equipped with powerful functions such as face detection, mask detection, face recognition comparison, body temperature detection and living body judgment. It's able to accurately capture the information (such as facial information, identity information, whether to wear a mask, etc.) and the body surface temperature of the person, who has passed through the camera's view. It is able to effectively help the users to manage access authority and monitor body temperature status, which is helpful to prevent the epidemic. Users can manage access rights offline by loading the face library to the device, as well as matching with attendance software to achieve employee attendance management. The products can be widely applied in scenes such as community access, barrier gate and passage, office building and so on!

#### 1.2 Product appearance



# **1.3 Definition of equipment interface**



No.	Interface name	Interface description
1	Power interface	12VDC
2	Network interface	RJ45 network interface
3	Bolov interface	+: NO Normally open port
3	Relay interface	-: COM Common end
		1: 12VDC
		2: Wiegand protocol data port
4	Wingond interface	D1
4	Wiegand interface	3: Wiegand protocol data port
		D0
		4: Signal ground

# **1.4 Packing Contents**

Panel Terminal × 1	Power Adapter × 1
• Wall bracket × 1	Wiegand male socket× 1
• Expansion Screws× 1	• User Manual× 1

# 2 Equipment installation

## 2.1 Hardware Installation

There are two ways to install this Panel Terminal. You can install it on the gate or on the wall.

## 2.1.1 The first way

You can put the gate bracket directly on the gate interface.



#### 2.1.2 The second way

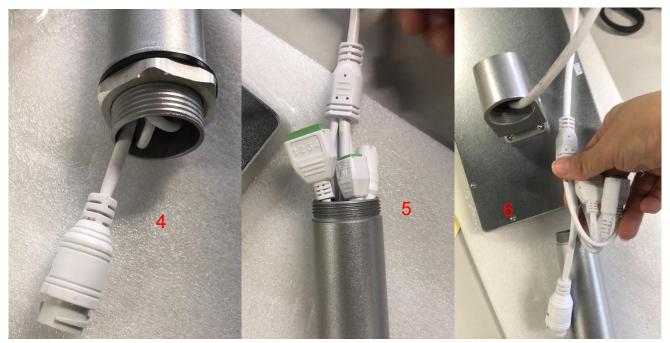
If you don't need the gate bracket, you can remove the bracket.

1. Unscrew the bracket A counterclockwise

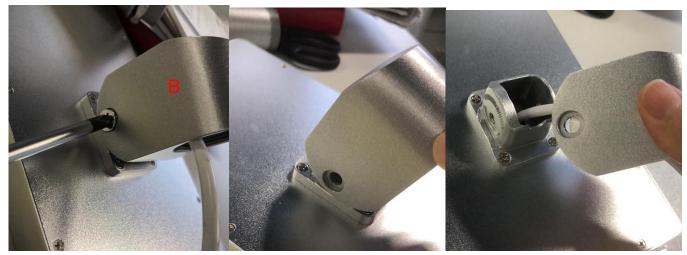


2. Take the tail wire out of the bracket, as shown in the figure below.

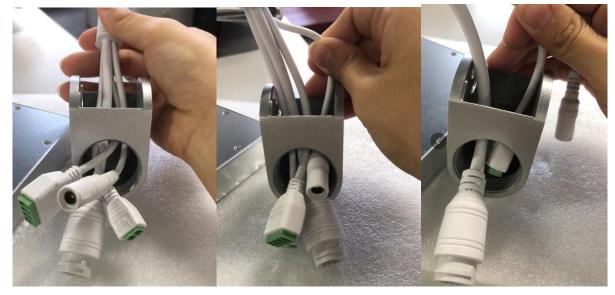




3. After taking out bracket A, use a screwdriver to loosen the screws on both sides of bracket B counterclockwise

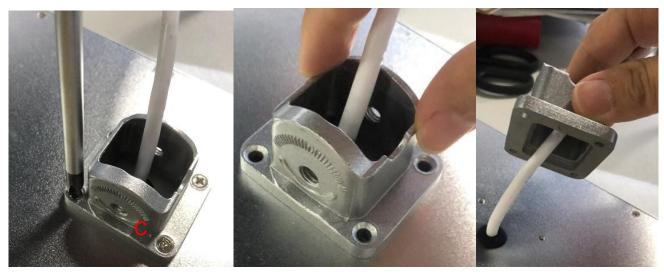


4. Pull out the interface wires one by one.

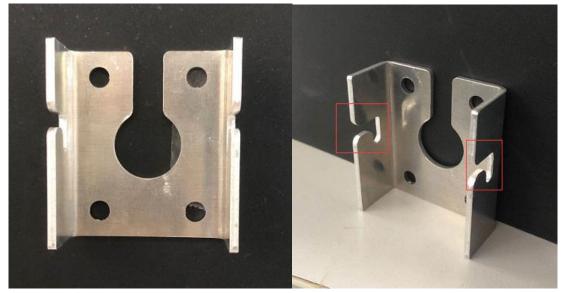


Note: Here must be pulled out one by one.

5. Use a screwdriver to unscrew the 4 screws on bracket C, and then pull out the interface cables one by one as in step 4.



6. Screw the mount on the wall with the four screws provided. **Note**: The direction inside the red box.



7. Secure the mounting bracket to the back of the tablet with the four screws provided.



8. Then use 2 screws to screw on the side screw holes, as shown below



9. Hang the bracket on the back of the machine on the bracket fixed on the wall, as shown below.



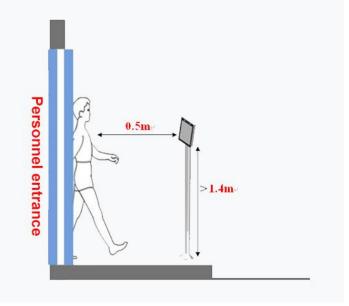
10. Finally, use a screwdriver to tighten the side screws to prevent falling.



## 2.2 Installation location

The camera shall be set in front of the channel to capture the face

- 1. The camera shall be set in front of the channel to capture the face.
- 2. It is suggested that the height h is about 1.4~1.6 meters, and the top view angle of the camera is 0~5. degrees.
- 3. In order to ensure the effect of temperature detection, it is better to keep the equipment 0.4m away from the personnel collection point (with the range of 0.3~0.5m), and the face pixels are not less than 100 pixels.



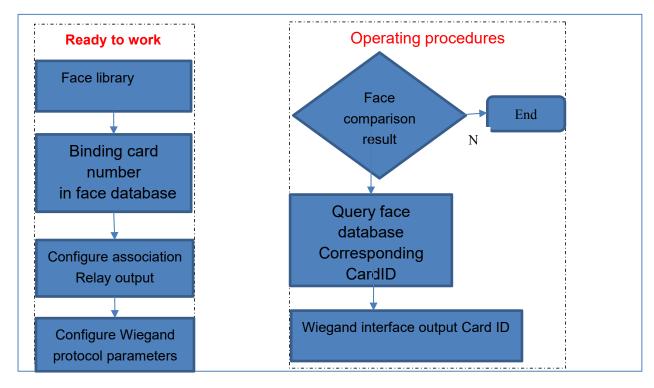
## 2.3 Installation environment

- Requirements for illumination: no backlight, no obvious reflection on the face, uniform light and no shadow. In addition, in order to ensure that the scene lighting is sufficient during face capturing, it is suggested that if the face in the lens image is not bright enough, lighting equipment should be added accordingly to supplement the light on the face of the personnel (generally up to 250-800 Lux).
- 2. Requirements for light and wind: recommend to install the equipment indoors, ensure that there is no wind or direct sunlight between the equipment and personnel, and to avoid too low or too high temperature measurement caused by blowing heat and direct sunlight.

## 2.4 Wiegand interface use

#### 2.4.1 Wiegand output

#### 2.4.1.1 Process introduction



#### 2.4.1.2 Wiring diagram

		No.	Interface name	Interface description			
		1	Power interface	12VDC			
		2	Network interface	RJ45 network interface			
	Ж	2	Bolov interface	+: NO Normally open port			
	///	3	3 Relay interface	-: COM Common end			
			///\				1: 12VDC
			Wiegand interface	2: Wiegand protocol data port			
	3	4		D1			
	(2)	4		3: Wiegand protocol data port			
				D0			
				4: Signal ground			

Connect D0, D1 and GND of the Wiegand interface to the Wiegand input interface of the access control board in order.

#### 2.4.1.3 Steps

**Step 1**: Add the face database, bind the Wiegand card number Card ID, as shown in the figure 12345678, click Confirm;

#### Input Face

735.666	Job ID	000001		
	Nane	Candy		
	Gender		Male	*
Cert	Age	23		
¥.	List Type		White List	*
	Mobile No.	-		
otes : Please click to get the pictu	Card ID:	123456	78	
before facing the device. The device will not take face re	Expiry Date		Foreever	٠
gnition within 3 seconds aft leaving the device lens.		00:00:00	23:59:59	
Snap			flen	

X

**Step 2:** Configure the interface, turn on the Black / White list comparison switch and Face Recognition + Relay;

	Foscam Access Control Terminal	_V1.1.32.M	Device Online		– <b>–</b> ×
	Snap Interval(second):	0	TEMP Delection On/Off:	On 💌	Overlay time:
ୟ	Snap Picture Quality Parameters(0~1):	1.00	TEMP Detection + Relay:	Connect 💌	Relay On/Off State:
₿	Snap Picture Blur Parameter(0~1):	1.00	Temperature detection voice prompt:	Off 💌	Temperature measuring mo
ß	Face Anti-Spoofing Parameter(0~1):	0.20	Temperature format:	Centigrade 💌	IO output mode:
\$	Face Recognition Parameter(0~100):	70.00	Normal TEMP parameter:	37.20	Face recognition mode:
	Same Person Identified Times (1~10):	3	Black/White list comparison switch:	On 💌	Refresh Save
	Recognition distance parameter:	2.5m 💌	Face Recognition + Relay	Connect 💌	
	Face exposure parameter (0~100):	50	Face recognition voice prompt:	Off 🔽	
	Software version:	1	Mask Detection On/Off:	On 💌	
	TEMP compensation setting:	0.00	Mask detection mode:	Epidemic mode	
\$	Switch delay time:	2	Mask + Relay:	Connect	

Step 3: WEB web page configuration Wiegand output:

Enter the IP address of the device in the IE browser to log in, enter the Settings—Network—WIEGAND interface, and configure according to the parameters of the Wiegand control panel **MODE:** 26-bit or 34-bit; **Card Number:** DET or HET

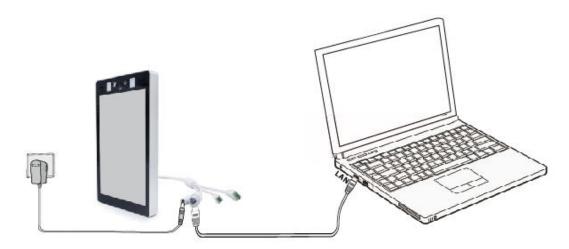
	browse/index.asp?id=1595487137155						<del>3</del> - C	Search	
etwork Camera X		1							
	Megapix	el IP Ca	mera						
Browse	Setting								
System	Network FTP	SMTP	QoS	IGMP	PORT	DDNS	Protocol	Upload	WIEGAN
Network	WIEGAND								
Camera	MODE: CardNumbe	34-bit DEC	> >						
Video&Audio			Save	Cancel					
Manage Users									
Log									
Face Detection									

**Step 4**: Align the face with the device identification frame, and after the comparison is successful, the Wiegand interface outputs the signal to the control board.



## **3 Quick instructions**

## 3.1 Equipment connection



The equipment can be connected to the PC through the network cable. After the equipment is powered on, Download the "Access Control Software for FFT-02 / Access\_control\_software" from foscam.com/tools to your computer, open the smart access control management software, input user name and password to login. **The default username and password is admin/123456,** You can click the **Change Password** button to modify the password.

Login		>	<
User Name:			
Password:			
	OK	l	
	Change password	×	

#### NOTES:

Access\_control\_software only supports Windows system.

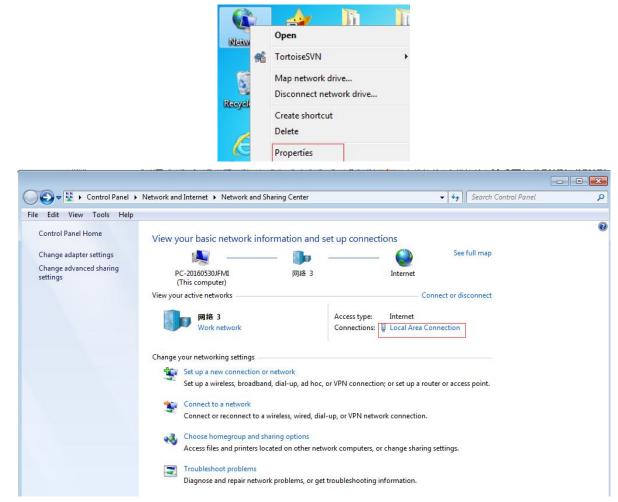
Factory equipment default IP address is 192.168.1.18, your computer IP address needs to be on the same network segment as the equipment.

#### How to modify the IP address of a windows computer?

If your computer is directly connected to the network cable, not through the router, the setting method is as follows:



1. Right-click the network icon **Network** on the computer desktop and select "Properties", enter to Network and sharing center, then click "Local Area Connection"



2. After entering the Local Area Connection Status interface, click "**Properties**", enter to Local Area Connection Properties interface, then Double click "**Internet Protocol Version 4(TCP/IPv4)**"

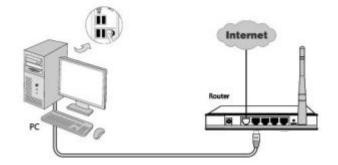
eneral		Networking		
Connection		Connect using:		
IPv4 Connectivity:	Internet	Realtek PCle GBE Fai	mily Controller	
IPv6 Connectivity:	No network access			
Media State:	Enabled			Configure
Duration:	00:09:59	This connection uses the foll	owing items:	
Speed:	1.0 Gbps	Client for Microsoft	the second design of the second s	
		QoS Packet Sched		
Details		<ul> <li>✓ ➡ File and Printer Sha</li> <li>✓ ▲ Internet Protocol Vet</li> </ul>		
		Internet Protocol Ve		and the second se
		🗹 📥 Link-Layer Topology	y Discovery Mapp	er I/O Driver
Activity		🗹 📥 Link-Layer Topology	y Discovery Resp	onder
Sent —	Received			
		Install	Uninstall	Properties
		Description		
Bytes: 3,833,056	64,170,607	Description		
Bytes: 3,833,056	64,170,607	Allows your computer to a	ccess resources (	on a Microsoft
Bytes: 3,833,056	064,170,607	and the second	ccess resources (	on a Microsoft

3.Enter to Internet Protocol Version 4(TCP/IPv4) Properties interface, select "**Use the following IP address**" You can enter the IP address as 192.168.1.(2~254), Except 192.168.1.18, click "OK" to take effect.

eneral		
	d automatically if your network supports need to ask your network administrator	
🔘 Obtain an IP address auto	matically	
Output Set Use the following IP address	ss:	
IP address:	192.168.1.29	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:	192.168.1.1	
Obtain DNS server addres	s automatically	
Output the following DNS service	ver addresses:	
Preferred DNS server:	211.162.78.2	
Alternate DNS server:	211.162.78.1	
📃 Validate settings upon ex	it Advanced	

If your computer is connected to the router through the network and then connected to your computer by the

router, the setting method is as follows:



1. You can enter 192.168.1.1 in IE browser to enter your router settings page, if it is not 192.168.1.1, please check the management account information marked on your router, You must set the IP address to 192.168.1. (1~254), Except 192.168.1.18, click "OK" to take effect.



2. Right-click the network icon **Network** on the computer desktop and select "Properties", enter to Network and sharing center, then click "Local Area Connection"

	Makw	Open			
	<b>1</b>	TortoiseSVN	•		
	5	Map network drive			
	Recycle	Disconnect network drive			
	decive.	Create shortcut			
	1	Delete			
		Propertíes			
Control Panel					
	<ul> <li>Network and Internet</li> <li>Network and Sh</li> </ul>	haring Center	•	Search Control Panel	م
File Edit View Tools Help					0
Control Panel Home	View your basic network info	ormation and set up connec	tions		
Change adapter settings	<b></b>	_ <b>]</b>		See full map	
Change advanced sharing	100		-		
settings	PC-20160530JFMI	网络 3	Internet		
	(This computer)	网络 3		t or disconnect	
	(This computer) View your active networks		Connec	t or disconnect	
	(This computer)	Access type:			
	(This computer) View your active networks	Access type:	Connec		
	(This computer) View your active networks	Access type:	Connec		
	(This computer) View your active networks <b>阿路 3</b> Work network Change your networking settings —	Access type: Connections: network	Connec Internet U Local Area Conne	ction	
	(This computer) View your active networks <b>阿路 3</b> Work network Change your networking settings —	Access type: Connections:	Connec Internet U Local Area Conne	ction	
	(This computer) View your active networks <b>阿猪 3</b> Work network Change your networking settings — 参 Set up a new connection or Set up a wireless, broadband 文 Connect to a network	Access type: Connections: network d, dial-up, ad hoc, or VPN connection	Connec Internet Local Area Conne	ction	
	(This computer) View your active networks <b>阿猪 3</b> Work network Change your networking settings — 参 Set up a new connection or Set up a wireless, broadband 文 Connect to a network	Access type: Connections: network	Connec Internet Local Area Conne	ction	
	(This computer) View your active networks <b>阿猪 3</b> Work network Change your networking settings — 参 Set up a new connection or Set up a wireless, broadband 文 Connect to a network	Access type: Connections: network d, dial-up, ad hoc, or VPN connecti wireless, wired, dial-up, or VPN netw	Connec Internet Local Area Conne	ction	
	(This computer) View your active networks	Access type: Connections: network d, dial-up, ad hoc, or VPN connecti wireless, wired, dial-up, or VPN netw	Connec Internet Local Area Conne on; or set up a router o rork connection.	r access point.	
	(This computer) View your active networks	Access type: Connections: d, dial-up, ad hoc, or VPN connecti wireless, wired, dial-up, or VPN netw aring options	Connec Internet Local Area Conne on; or set up a router o rork connection.	r access point.	

3. After entering the Local Area Connection Status interface, click "**Properties**", enter to Local Area Connection Properties interface, then Double click "**Internet Protocol Version 4(TCP/IPv4)**"

General		Networking
Connection		Connect using:
IPv4 Connectivity:	Internet	Realtek PCIe GBE Family Controller
IPv6 Connectivity:	No network access	
Media State:	Enabled	Configure
Duration:	00:09:59	This connection uses the following items:
Speed:	1.0 Gbps	Client for Microsoft Networks
-press.	The other	QoS Packet Scheduler
Details		File and Printer Sharing for Microsoft Networks
		Internet Protocol Version 6 (TCP/IPv6)      Internet Protocol Version 4 (TCP/IPv4)
		Link-Layer Topology Discovery Mapper I/O Driver
Activity		Link-Layer Topology Discovery Responder
Sent —	— Neceived	Install Uninstall Properties
Bytes: 3,833,0	056 64,170,607	Description
18 8 8 10		Allows your computer to access resources on a Microsoft
		network.
	le Diagnose	
Properties 😚 Disabl		

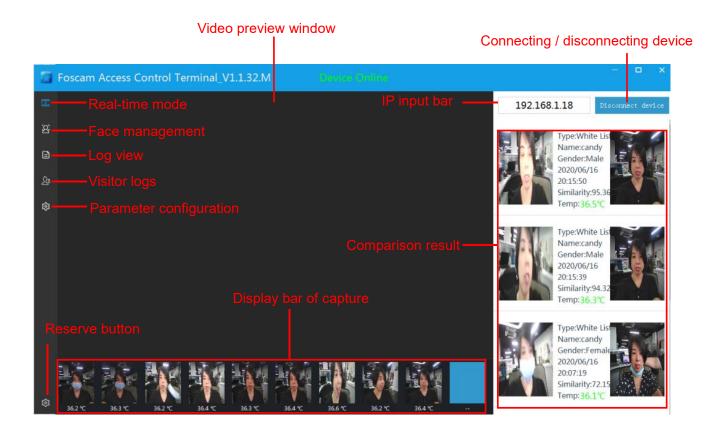
4.Enter to Internet Protocol Version 4(TCP/IPv4) Properties interface, select "Obtain an IP address automatically" and "Obtain DNS server address automatically ", click "OK" to take effect.

General	Alternate Configuration				
this cap	n get IP settings assigned auto bability. Otherwise, you need t appropriate IP settings.				
() O	otain an IP address automatica	ally			
O Us	e the following IP address:				
IP ac	ddress:				
Subr	net mask:				
Defa	ult gateway:		3	÷.	
<ul> <li>Oł</li> </ul>	otain DNS server address auto	omatically			
O Us	e the following DNS server ad	dresses:			
Prefe	erred DNS server:				
Alter	nate DNS server:		1	+	
V	alidate settings upon exit			Adva	nced

## 3.2 Smart access control management software

After the device is powered on, the smart access control management software can be employed to set up a face library, preview real-time video, display real-time comparison results, read device logs, and configure device parameters. etc.

#### 3.2.1 Introduction to main interface



Video preview window: After the device is connected, play the real-time video of the camera.

**IP input bar:** The IP address of the device can be input here.

#### Button for connecting / disconnecting device:

Click [connect device] to connect to the device, it can be used to view real-time video, upload real-time snapshot pictures, display the recognition results, etc.

Click [disconnect device] to disconnect and close preview.

**Comparison result:** When the captured face matches with the face library in the device, it will be displayed here. The basic information, similarity, temperature and other information of the face will be displayed, if the face library is not matched, it will not be displayed.

**Display bar of capture:** In the mode of video preview, it can be used to display the captured face pictures and body surface temperature under the current screen.

**Face management:** Click to enter the face library management interface, it can be used to perform operations such as adding, subtracting, deleting, checking, and modifying the face librar

**Log View:** View and export the face recognition record information saved by the device, and generate the personnel attendance record table.

**Parameter configuration:** The interface of key parameter configuration of face recognition of the device, parameters are able to be modified on this interface.

**Reservation button:** No function is defined yet, software setting function will be added later.

#### 3.2.2 Face database management

Users are able to perform operations such as adding, subtracting, deleting, checking, and modifying the face library in this interface.

53	Foscan	n Access Control 1	[erminal_V1.1	.32.M	Device Ortline		– o x
œ	ID	Name	Gender	Age	List Type		1 Page / 1 Page
원 문 문	1	leon	Male	35	White List	. Nodify Delete	Previous Page Next Page 1 Go to
\$	2	candy	Male	0	White List	Rodify Delete	Add Delete All Import One Bulk Import
	3	add2	Male	0	White List	Nodify Delete	Export picture Sync face info Sync face picture Export face data
କ୍ଷ	4	add3	Male	0	White List	Nodify Delete	Import face data

Previous Page / Next Page: Previous / Next page switching button

Go to: Enter the specified page, click jump to quickly enter the corresponding page

Add: Snap to add face library to the device

Delete All: Click the button to delete all face libraries in the device

Import One: Import one single picture to the device face library

Bulk Import: Batch import multiple pictures to the device face library

Export picture: Export and backup the face library saved in the local software as a picture

**Sync face info:** Click to automatically upload the basic information of the device's face library personnel, such as the name, number, gender, age, etc.

Sync face picture: The device uploads the face library to the PC software

Export face data: Export and backup photos of face library which was saved locally

Import face data: Export and backup the information of the face library moved out to be backed up

Modify: Modify the personal information of the current face

Delete: Delete the current face library information from the device

#### 3.2.2.1 Add

Click the **Add** button to enter the interface  $\rightarrow$  the face is facing the camera  $\rightarrow$  click the **Snap** button, capture the face picture  $\rightarrow$  enter the personnel information, and click the **Confirm** button  $\rightarrow$  the official face entry is successfully completed.

	Input Face				×
		J∘b ID			
		Name			
20-06-17 24-03:35		Gender		Male	٠
		A ==	X		
	Get ti	he captured image	successfully V	Vhite List	
		OK			
	Notes : Please click to get the pictu	Card ID:			
	re before facing the device.Th e device will not take face re	Expiry Date	I	oreever	
candy	cognition within 3 seconds aft er leaving the device lens.		00:00:00	23:59:59	
	Snap		Corfi	2°M	

#### 3.2.2.2 Import one face library

Click **Import one**, the face input interface will be popped up  $\rightarrow$  click **PIC**, select the face image file  $\rightarrow$  enter the person information  $\rightarrow$  click **confirm to enter** to complete the single face import.

Input Face				×
	Job ID			
	Name			
	Gender		Male	
	A = -	×		
Ga	t the captured image	successfully	White List	×
Note:	Card ID:			
Please click PIC to se lect a face picture.	Expiry Date		Foreever	
		00:00:00	23:59 <mark>:</mark> 59	
PIC		Cor.f	irm	

#### 3.2.2.3 Bulk import face library operation

Click **Bulk Import,** the interface pops up  $\rightarrow$  click **Select File**, select the face picture folder  $\rightarrow$  click **Start Importing**, and the import progress bar is completed to complete the batch import face operation. Note: The user are able to save the personnel information in the name according to the rules, import the picture name in batches will import the personnel information into the device synchronously.

Bulk Import Faces		×
Rules:		
1."name.jpg"		
2."ID_name.jpg"		
3."ID_name_gender.jpg"		
4."ID_name_gender_age.jpg"		
5."ID_name_gender_age_phonenumber.jpg"		
6."ID_name_gender_age_phonenumber_IdNumber.jpg"		
7."ID_name_gender_age_phonenumber_CardNumber.jpg"		
Select the file path where faces to be imported:		
select the file path where faces to be imported.		
C:\Users\huayu\Desktop\图		Select File
20%	5/25	
	-	
Start Inporting		
	_	

#### 3.2.2.4 Operation of Export picture

Click the **Export picture** button  $\rightarrow$  select the picture naming rules in the pop-up box  $\rightarrow$  select the directory and click the start export button to perform the export action  $\rightarrow$  after the export is completed, a folder named by date will be generated.

	porting, please ma ocal is synchronie	
h the dev	ice. If not, please o	CHCK
"synchron	onize face photos'	' to

#### **Bulk Export Faces**

Choose a picture	name.jpg	v
Select the image folder pa	th of the face to be exported:	Select File
(	0%	0/0
	Start export	

×

#### 3.2.2.5 Sync face info

Click the **Sync face info** button to synchronize the basic information of the face library, after synchronizing the basic information of the face library, you can view the face information on the page.

			Tip			×	
				ta, ok		on will change loc	
5	Foscam /	Access Control T	erminal_V1.1	32.M	Deviced		- D X
anor anor	ID	Name	Gender	Age	List ⊺ype		1 Page / 1 Page
<mark>کا</mark> ۳	1	lecn	Male	35	White List	Nodify Delete	Previous Page Next Page 1 Go to
\$	2	candy	Male	0	White List	Modify Delete	Add Delete All Import One Bulk Import
	3	add2	Male	0	White List	Nodify Delete	Export picture Sync face info Sync face picture Export face data
ශ	4	add3	Male	0	White List	Nodify Delete	Import face data

#### 3.2.2.6 Synchronous face picture

Upload the face library in the device to the management software. After replacing a new device, the face library

has to be manually synchronized first, otherwise, the personnel information on the management software and the device's face library may be inconsistent, which may result in incorrect display of the identification and comparison information.

	Tip		
	Synchronous operation will change loc al data, ok?		
	OK Cancel		
Running			
	16%	3/18	

#### 3.2.3 Log viewing & attendance record

Click button to enter the interface  $\rightarrow$  select the search start and end time  $\rightarrow$  click button to search the log.

Foscam Ac	cess Control Ter	minal_V1.1.32.M				•	
Datatime	2020/06/16 00:00	▼ 2020/06/16 23	3:59 🔻 🔍 Expor	t Attendance Record			
ID	Name	Time	Temperature	Wear a mask	Event Description		
00002	candy	2020-06-16 19:49:10	36.4℃	No	Recognized and Passed		
00002	candy	2020-06-16 19:57:31	36.2℃	Yes	Recognized and Passed		
00002	candy	2020-06-16 19:57:37	36.0℃	Yes	Recognized and Passed		
00002	candy	2020-06-16 19:57:42	36.5℃	Yes	Recognized and Passed		
00002	candy	2020-06-16 19:57:48	36.1℃	Yes	Recognized and Passed		
00002	candy	2020-06-16 20:02:24	36.1℃	Yes	Recognized and Passed		
2	candy	2020-06-16 20:10:42	36.3℃	No	Recognized and Passed		
2	candy	2020-06-16 20:10:53	36.5℃	No	Recognized and Passed		
2	candy	2020-06-16 20:32:18	36.6℃	No	Recognized and Passed		
2	candy	2020-06-16 20:32:22	36.3℃	No	Recognized and Passed		

**Export attendance record**: Click button → select save path → automatically export attendance record to save EXCEL.

Datatime	2020/06/1	6 00:00 ¥ 2020/06/16 2	13:59 🔻 🔍 Expo	rt Attendance Record		
ID	Name	Time	Temperature	Wear a mask	Event Description	
00002	candy	2020-06-16 19:49:10	36.4°C	No	Recognized and Passed	
00002	candy	Select attendance tin	ne		× Passed	
00002	candy	Star	t time: 08 v	30 *	Passed	
00002	candy	End	time: 17	30 •	Passed	
00002	candy		OK		Passed	
00002	candy				Passed	
2	candy	2020-06-16 20:10:42	36.3°C	No	Recognized and Passed	
2	candy	2020-06-16 20:10:53	36.5°C	No	Recognized and Passed	
2	candy	2020-06-16 20:32:18	36.6°C	No	Recognized and Passed	
2	candy	2020-06-16 20:32:22	36.3℃	No	Recognized and Passed	
					×	
		Export atte path C:\Use 6_204622_at ent total n	rs\huayu\I tendance_J	Desktop\20 records.xl	20-06-1 s, curr	

A	В	C	D	E	F	G	Н	I	J	К	L
DATE	FACEINDEX	ID	NAME	Working hours	Working temperature	Working wear a mask	Minutes late	after work time	after work temperature	after work wear a mask	Minutes early
2020-06-16	1	100	leon		36.2	yes	1	L	36.3	yes	OK
2020-06-16	2	2	candy	9:00:42	36.3	no	(	20:10:53	36.5	yes	OK
2020-06-16	3	3	add2		36.4	yes	2	2	36.3	yes	OK
2020-06-16	4	4	add3	(44)	36.1	yes	(	)	36.1	yes	OK
2020-06-16	5	5	add4	122	36.6	yes	(	)	36.3	yes	OK

## 3.2.4 Visitor logs

Click button enter to the interface  $\rightarrow$  select the search start and end time $\rightarrow$ click button to search the log.

Datatime	2020/06/16 00:00	• 2020/06/16 23	:59 🔻 💽 Đ	cport visitor records			
ID	Name	Time	Temperature	Wear a mask	Snap	1 Page / 1 Page	
	visitor	2020-06-16 20:05:11	36.4°C	No			Previous Pag Next Page
	visitor	2020-06-16 20:05:07	36.3°C	No			
	visitor	2020-06-16 20:05:02	36.4°C	No			
	visitor	2020-06-16 20:04:53	36.2°C	Νο			

Click the **Export visitor record** button  $\rightarrow$  select the save path  $\rightarrow$  automatically export the attendance record to save EXCEL.



ID	name	date	time	temperature	wear a mask	image
	visitor	2020-06-16	17:40:49	36.6	yes	F
	visitor	2020-06-16	17:40:53	36.6	yes	
	visitor	2020-06-16	17:40:57	36.6	yes	
	visitor	2020-06-16	17:41:01	36.6	yes	
	visitor	2020-06-16	17:41:06	36.5	yes	

## 3.2.5 Parameter configuration

Users can set the key parameters of the face capture and device switch functions. The device supports the three major functions of face recognition comparison, body temperature detection, and mask detection. Users are able to freely configure the switch function, whether or not to associate with control relay, and whether or not to broadcast voice reminders, etc. For example, if the user requires the door can be opened when the body temperature is normal, to realize this, the body temperature detection function needs to be turned on and the rest closed; if the user requires the door can be opened when the specified person, those with normal body temperature and are wearing mask, the face recognition comparison, body temperature detection, and mask detection need to be enabled at the same time, and when all three of these tests are normal, the relay will be controlled to open the door. The configuration interface and specific details are as follows.



**Snap Interval:** set the face capture time interval to avoid repeated capture of pictures in a short time. **Face Anti-Spoofing Parameter**: Set the Face Anti-Spoofing Parameter, 0-1, the larger the value, the stricter the living body detection and the safer it is.

Snap Picture Quality Parameters: Set the Snap Picture Quality Parameters, 0 is the worst, 1 is the best.Face Recognition Parameter: Set the Face Recognition Parameter, compare the captured face pictures with the face library, if the similarity exceeds this threshold, it would be recognized as the same person.The threshold is recommended to be set above 70, the greater the matching similarity, the higher the

requirement and the safer it is **Snap Picture Blur Parameter**, range 0-1, the smaller the value, the

clearer

**Same Person Identified Time:** Set the Same Person Identified Time, if it exceeds the number of times, there will no longer be any recognition, only by exiting the camera's field of view and re-entering the screen can it be continued to recognition.

**Recognition distance parameter:** 0.5m, 1m, 1.5m, 2m, 2.5m are optionally to be configured. The default is 1 meter. Since the distance limit of the temperature measurement module is within 1 meter, this option is limited

and cannot be set.

**Face exposure parameter (0-100):** Set the brightness of the captured picture of the face, the default is 50. **Software version:** the factory default configuration version number is displayed for no revise.

**Temperature compensation setting:** In the case of harsh environment, increase the compensation temperature to improve the accuracy of temperature measurement

**Normal Temperature t parameter:** Set the temperature alarm temperature value, if it is higher than the set value, abnormal body temperature will be warned, if it is lower than the set value, the body temperature is normal.

**switch delay time:** The pulse time (unit 100ms) of the switch output, the default configuration is 2 or 200ms. **Black / white list comparison switch:** Turn on and off the face recognition comparison function, if it is off, the face comparison will not be performed.

**Face Recognition + Relay:** Switching the face recognition result associated relay action, after turning on, if face comparison is successful, and switched to the white list, the relay will be controlled to close.

**Face recognition voice prompt**: Configure the voice broadcast mode of the recognition result, including three modes: on, off and on only for abnormal.

**On:** When the comparison result is a white list, "please pass through" will be broadcast in voice, if the comparison result is not in the list library, u, then the voice broadcast will not be recognized;

Off: no comparison and identification results will be broadcast;

Temperature Detection On / Off: turn on and off the temperature detection function.

**Temperature- Detection + Relay:** Configure whether to associate the relay. Configure to be related, if the body temperature is normal, the relay is controlled to open and close, and the default control relay mode is closed.

**Temperature detection voice prompt**: Configure the temperature test result voice broadcast mode to: Off, Only for abnormal and TEMP vice prompt.

**Only for abnormal**: If the temperature measurement value is higher than the high temperature threshold, "abnormal body temperature" will be voice broadcast, and the temperature is not broadcast when normal;

Off: Broadcast no temperature measurement results;

**TEMP vice prompt:** Broadcast the measured temperature value, if it is higher than the high temperature threshold, broadcast "temperature xx°C, abnormal body temperature"

Mask detection On / Off: Turn on and off the mask detection function.

**Mask detection mode**: It can be configured as two modes: the epidemic mode and the non-epidemic mode. Epidemic mode: In this mode, the voice will prompt "Please wear a mask "when detecting a mask is not worn; Non-epidemic mode: In this mode, when a person is detected wearing a mask, the voice will prompt "Please remove the mask" to improve the recognition accuracy.

**Mask-+ relay**: Turn on and off the mask-associated relay. In epidemic mode, when the mask is worn correctly, the relay is controlled to operate, otherwise the relay is not controlled.

Mask detection voice prompt: Configure the mask reminder broadcast mode to only for abnormal, Off.

**Only for abnormal:** in epidemic mode, "please wear a mask" will be broadcast if a mask is not worn, otherwise no reminder will be broadcast;

in **Off** mode, "please remove the mask" will be broadcast if a mask is worn, otherwise there will be no broadcast.

**Overlay time**: When it selects stacking time, the device's current time is displayed on the screen, and when it is No stack, the device's time is not displayed on the screen.

**Temperature format**: Configure the temperature unit. It can be configured as two temperature units of Celsius and Fahrenheit.

Relay On / Off State: There are two modes: Normal and Abnormal

**Temperature measuring mode:** There are two modes: Indoor and outdoor, you can choose according to your installation environment

**IO output mode:** There are two modes: Wiegand output and lamp control output, you can choose according to your needs modes.

**Face recognition mode:** There are three modes: Local recognition, Local and online recognition and Online recognition

**Refresh:** Click the button to get the configuration on the device.

**Save configuration:** Click the button to send the configuration information to the device to save and take effect.

# 4 Program upgrade

Note: Only support IE browse.

**Step 1:** Open the browser, input the equipment IP address, and input the user name(default: admin) and password (default: **blank**)

← 🔄 🔁 http://192.168.1.18/		h ★ α	
This page can't l			
<ul> <li>Make sure the web address http://hao.360.c</li> <li>Look for the page with your search engine.</li> <li>Refresh the page in a few minutes.</li> </ul>	Windows Security         Z           The server 192.168.1.18 is asking for your user name and password. The server reports that it is from Megapixel_IP_Camera.         Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.		
Fix connection problems	admin  admin  control  contro  control  control  control  control  control  control		
	OK Cancel		

Step 2: Click Settings-> System-> Maintenance in sequence to enter the upgrade interface.

**Step 3:** Click browse to select the app.ifu upgrade package.

**Step 4:** Click the [Upload] button to start the upgrade. Wait for the upgrade to complete and the web page will automatically refresh.

← ⊕ ⊕ http://192.168.1.18/browse	z/index.asp?id=1592384791448	- <b>□ -×</b>					
	Megapixel IP Camera						
Browse	Setting 1						
System 2	System Time Advanced3	^					
Network	Firmware upgrade						
Camera	Browse						
Video&Audio	Submit 5						
Manage Users	Factory settings						
Log	Press the button to reset all the parameters to the factory default settings.						
Face Detection	Keep current IP unchanged: 🗹						
	Reset						
	Temperature Callbrate						
Press the button to reset the temperature calibration.							
	Reset						
	Reboot						
	Press the button to reboot the system, the window will reload after it.						
	Reboot	~					
	<	>					





CE Certificate statement Website: https://www.foscam.com/company/ce-certificate.html

Exporter and Importer Information Opened to Public: https://www.foscam.com/company/open-information.html

Manufacturer: Shenzhen Foscam Intelligent Technology Co., Ltd Addr: Room 901, Unit B, Building 7, Xingke 1st Street Vanke Cloud City Phase 1, Nanshan Dist., Shenzhen, 518055, China